(19) 世界知的所有権機関 国際事務局



(43) 国際公開日 2003年9月12日(12.09.2003)

PCT

(10) 国際公開番号 WO 03/074570 A1

(51) 国際特許分類7: A61K 31/715, A61P 31/16 C08B 37/00.

PCT/JP03/02338

(SUZUKI, Yasuo) [JP/JP]; 〒420-0911 静岡県 静岡市 瀬名1丁目8番3-102 Shizuoka (JP). 左 一八 (JWA,Ilpal) [KR/JP]; 〒424-0857 静岡県 清水市 川原 町21-11-402 Shizuoka (JP).

東京都 渋谷区 宇田川町37-10 麻仁ビル6階

CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,

(21) 国際出願番号: (22) 国際出願日:

2003年2月28日(28.02.2003)

(74) 代理人: 西澤 利夫 (NISHIZAWA, Toshio); 〒150-0042

(25) 国際出願の言語:

日本語

Tokyo (JP).

(26) 国際公開の言語:

日本語

(81) 指定国 (国内): CN, JP, US.

NL, PT, SE, SI, SK, TR).

(30) 優先権データ:

特願2002-057909

2002年3月4日(04.03.2002) JP (84) 指定国 (広域): ヨーロッパ特許 (AT, BE, BG, CH, CY,

(71) 出願人 (米国を除く全ての指定国について): 科学技術 振興事業団 (JAPAN SCIENCE AND TECHNOLOGY CORPORATION) [JP/JP]; 〒332-0012 埼玉県 川口市 本町4丁目1番8号 Saitama (JP).

添付公開書類:

国際調査報告書

(72) 発明者; および

(75) 発明者/出願人 (米国についてのみ): 鈴木 康夫

2文字コード及び他の略語については、定期発行される 各PCTガゼットの巻頭に掲載されている「コードと略語 のガイダンスノート」を参照。

(54) Title: NOVEL BRANCHED SIALO-SUGAR MOLECULES AND ANTIVIRAL AGENTS USING THE SAME

(54) 発明の名称: 新規分岐状シアロ糖分子とそれを用いたウイルス剤

NeuAc α 2-6Hex-HexNAc

Hex-R

(I)

NeuAc α 2-3Hex-HexNAc

the following general formula (I) as substances which respond to variations in the host area of influenza viruses as well as variations in antigenicity and are useful as adsorbents in drugs

(57) Abstract: It is intended to provide novel

branched sialo-sugar molecules represented by

and virus elimination filters whereby the infection with type A influenza virus and type B influenza virus originating in any animals including humans can be prevented: (I) wherein NeuAc represents N-acetylneuraminate in which the hydroxyl, carboxyl and amido may be chemically modified with halogeno, alkyl and acyl either identically or separately; Hex represents hexose; HexNAc represents N-acetylhexosamine; and R represents hydrogen, hydrocarbyl, a sugar chain, or a substrate selected from among lipids, proteins and synthetic polymers, each optionally being substituted; provided that the bond between N-acetylneuraminate and hexose may be either an O-glycoside bond occurring in nature or a chemically converted bond such as an S-glycoside or Se-glycoside bond.

/続葉有/



INTERNATIO SEARCH REPORT

Internals, and application No. PCT/JP03/02338

	SIFICATION OF SUBJECT MATTER C1 ⁷ C08B37/00, A61K31/715, A61	P31/16	
According t	o International Patent Classification (IPC) or to both na	tional classification and IPC	
	S SEARCHED		·
	ocumentation searched (classification system followed C1 C08B37/00, A61K31/715	by classification symbols)	
	tion searched other than minimum documentation to the		
	lata base consulted during the international scarch (nam STN), REGISTRY (STN), WPIDS (STN)	e of data base and, where practicable, sea	rch terms used)
C. DOCU	MENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
X	Van Pelt, Johannes; Hard, Kar P.; Vliegenthart, Johannes F. J.; Galjaard, Hans, Isolation characterization of twenty-on sialyloligosaccharides from g urine. An intact N,N'-diacety the reducing end of a dianter Biological Chemistry Hoppe-Se 191-203	G.; Reuser, Arnold J. and structural ne galactosialidosis vichitobiose unit at mary structure, eyler (1989), 370(3),	1,2
"A" docum conside "E" earlier date "L" docum cited to special "O" docum means "P" docum than th	document defining the general state of the art which is not considered to be of particular relevance earlier document but published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other		
	april, 2003 (03.04.03)	22 April, 2003 (22	.04.03)
Name and n Japa	nailing address of the ISA/ tnese Patent Office	Authorized officer	
Facsimile No.		Telephone No.	



Interna and application No.
PCT/JP03/02338

	ion). DOCUMENTS CONSIDERED TO BE RELEVANT	R2.	कुलिंग एक
ategory*	Citation of document, with indication, where appropriate, of the releva	nt passages 🗅	Relevant to claim No.
х	Strecker, Gerard; Peers, Marie Claire; Minder Claude; Hondi-Assah, Theophile; Fours Bernard; Spik, Genevieve; Montreuil, Jean; Jean Pierre; Maroteaux, Pierre; Durand, Postructure of nine sialyl-oligosaccharides accumulated in urine of eleven patients with different types of sialidosis. Mucolipidos two new types of mucolipidosis, European Biochemistry (1977), 75(2), 391-403	net, ;; Farriaux, aolo, ith three sis II and	0,12
A	Unverzagt, Garlo; Kelm, Soerge; Paulson, Chemical and enzymic synthesis of multiva sialoglycopeptides, Carbohydrate Research 251, 285-301	lent	1-10
		i.	
		:	
		·	
		•	
		i	
ļ			